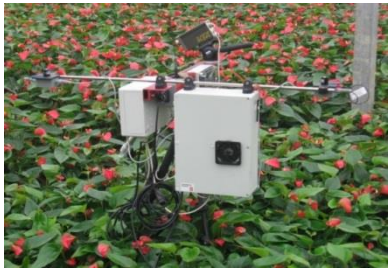
THE INTERNET OF FOOD AND FARM

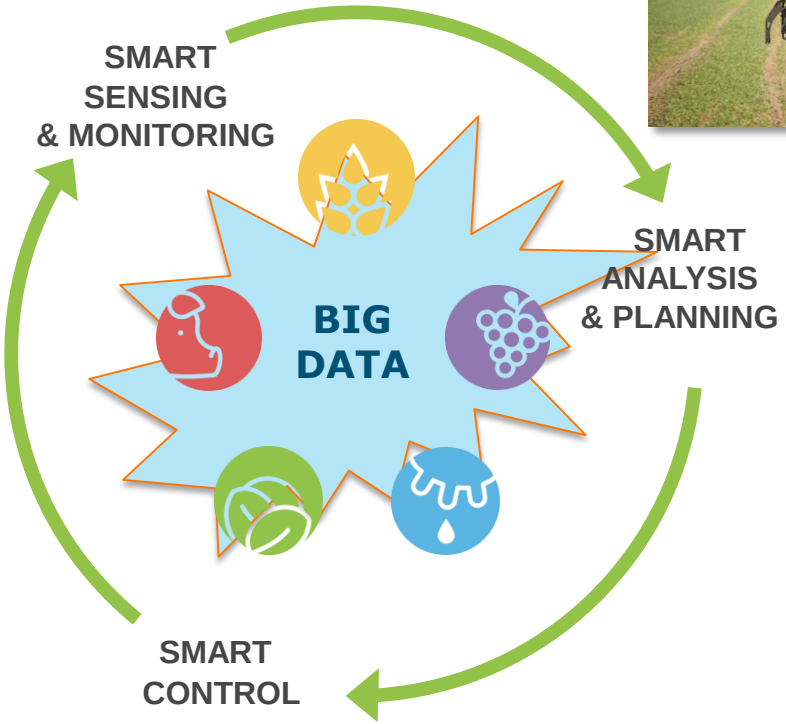
Digitising agriculture and food value chains

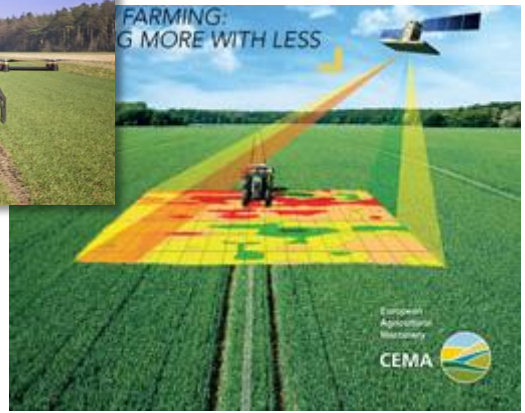
GEORGE BEERS

Brussels, November 17, 2017

ADVANCEMENTS IN FARMING





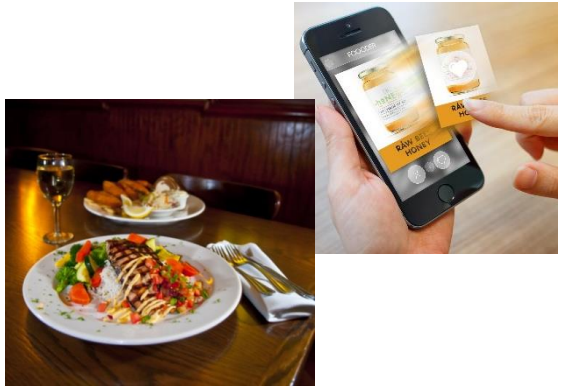


INVOLVING ENTIRE SUPPLY CHAIN AND BEYOND

Smart Farming

tracking & tracing

Smart Logistics

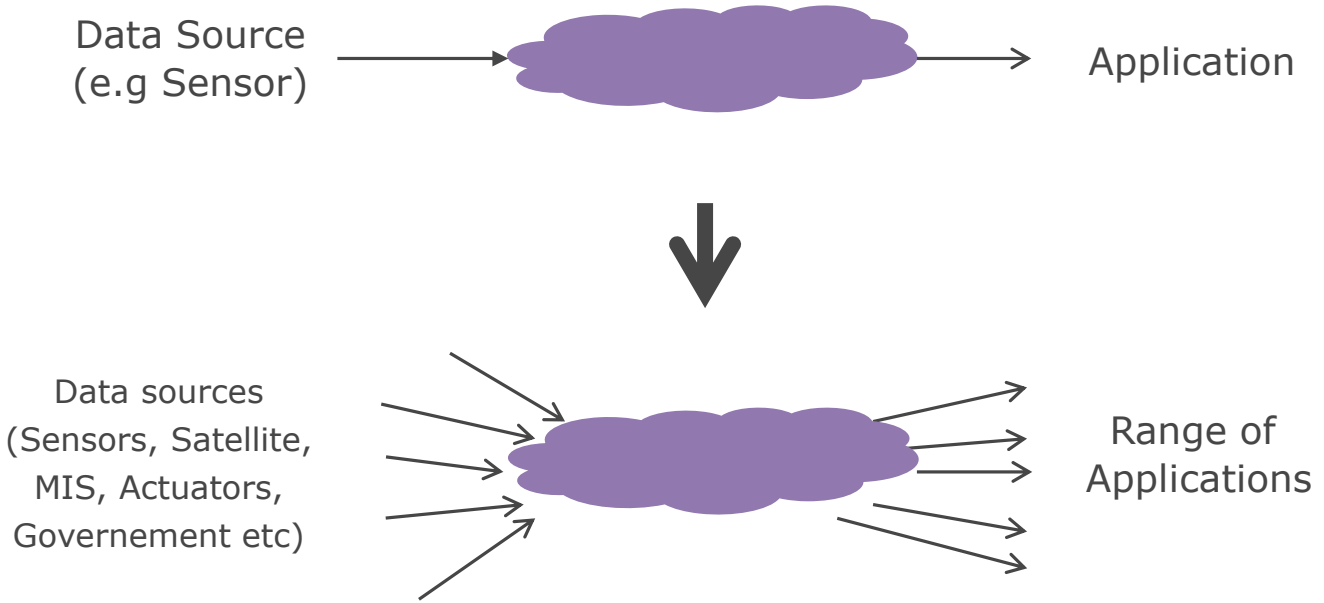


Domotics

Health

Fitness/Well-being

Cloud computing ➔ IoT



FI-PPP

LSP IoT

INTERNET OF FOOD & FARM

PROJECT OBJECTIVES

IoF2020 fosters a large-scale uptake of IoT in the European farming and food sector. In brief, it aims to:

1. Demonstrate the business case of IoT for a large number of application areas in farming and food sector;
2. Integrate and reuse available IoT technologies by exploiting open infrastructures and standards;
3. Ensure user acceptability of IoT solutions in farming and food sector by addressing user needs, including security, privacy and trust issues;
4. Ensure the sustainability of IoT solutions beyond the project by validating the related business models and setting up an IoT ecosystem for large scale uptake.

IOF2020 – LARGE SCALE PILOT

75 PARTNERS ORGANISATIONS

16 COUNTRIES

4 YEARS

Start = January 2017

€35 MILLION BUDGET

(€30 million co-funded under EU H2020 programme)

5 TRIALS, 19 USE CASES

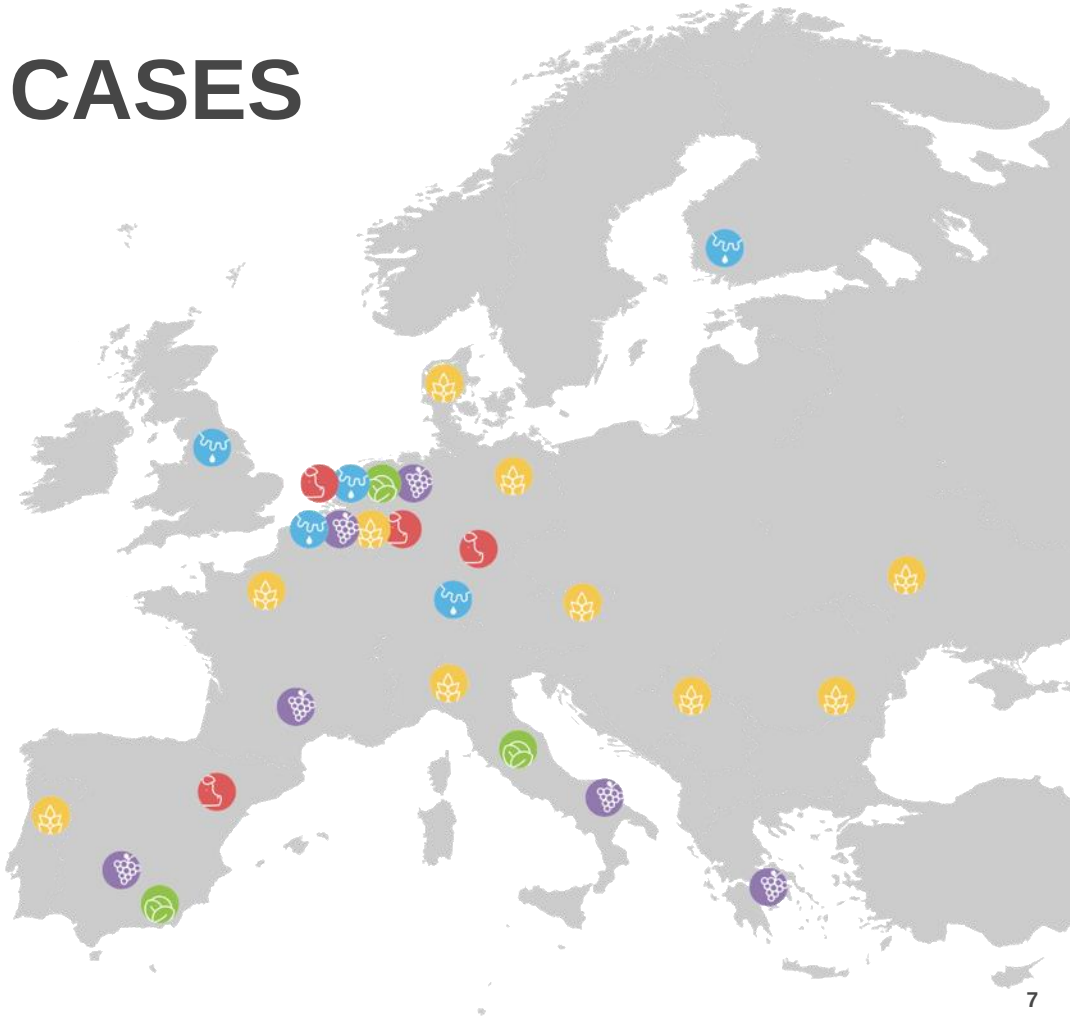
ARABLE

FRUITS

DAIRY

VEGETABLES

MEAT



TRIAL & USES CASES METHODOLOGY
LEAN APPROACH

TECNOLOGY
IMPROVEMENTS
Fine tuning

MVP1
Initial Deployment

MVP2
First Release

MVP3
Second Release

DEMO
Large scale

ECOSYSTEM
END USER FEEDBACK
Involvement & co-creation

&

BUSINESS
KPIs EVALUATION
Measurement & monitoring

GENERIC APPROACH & STRUCTURE

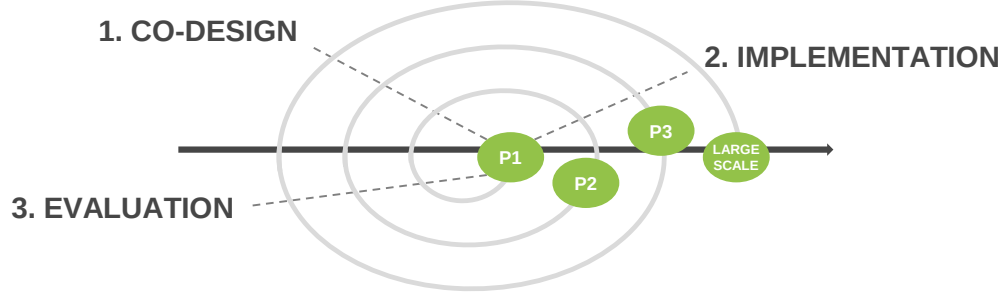
WP1 Project Coordination & Management

WP3 IoT Integration

WP4 Business Support

WP2 Trials/Use cases: Knowledge & App development

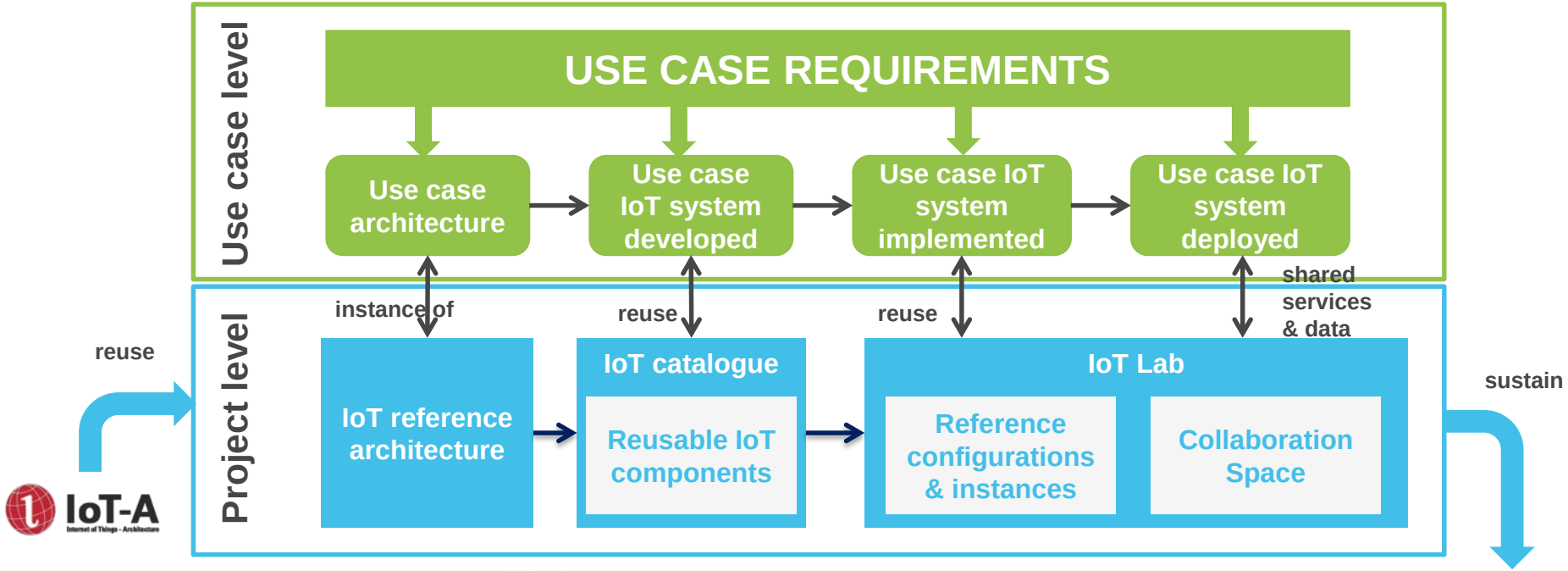
Lean multi-actor approach



WP5 Ecosystem Development

IOF2020 ECOSYSTEM & COLLABORATION SPACE

TECHNICAL / ARCHITECTURAL APPROACH



FIWARE OPEN APIs FOR OPEN MINDS · AgGateway Collaboration for eConnectivity · ETSI · GS1 EPCglobal · AEF Certified ISOBUS www.aef-isobus-database.org · FIspace Business Collaboration · IOF

PLATFORMS IN IOF2020

Project level:

- Consortium is rooted in FIWARE program
  - Open access for Re-usable components
  - Beneficial for sme's
  - Speeding up innovation
  - Stimulate standardisation
- Fiware Foundation partner in IoF2020
- FI-Space as AgriFood 'quarter' in Fiware

Use Cases level:

- Existing platforms (big companies)
- Connecting different platforms
- Converging in time

INTERNET OF FOOD & FARM

IOF2020 – DIGITAL INNOVATION HUBS

Results Large Scale Pilot:

- Use Cases demonstrating benefits IoT
- Catalogue reusable components
- Ecosystem at EU level
  - Innovative AgriFood companies
  - Advanced IT providers

Ambition on impact and sustaining IoF2020 results

- Scaling up by reaching out to local agrifood communities
- Bringing pilot results in proximity of end users (e.g. farmers)

Actions

- IoF2020 Partners investing in Digital Innovation Hubs
- IoF2020 Competence Centres to be connected to DIH's
  - Partners in the IoF2020 Ecosystem
  - Catalogue reusable components

STAY-TUNED VIA

- Website: www.iof2020.eu
- Twitter: @IoF2020
- Newsletter subscription & contact: communications@iof2020.eu

THANK YOU FOR YOUR ATTENTION!

CONTACT INFORMATION

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INTERNET OF FOOD & FARM

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